

ABSTRACT OF THE DISCLOSURE

A loop powered process instrument comprises a control circuit measuring a process variable and developing a control signal representing the process variable. An output circuit for connection to a two-wire process loop controls current on the loop in accordance with the control signal. A power supply circuit is connected to the output circuit and the control circuit for receiving power from the two-wire process loop and supplying power to the control circuit. The power supply comprises cascaded charge pump circuits.

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